

Math Tips for Parents

Grade 3 • Module 5

Fractions as Numbers on the Number Line

In this 35-day module, students extend and deepen 2nd grade practice with “equal shares” to understanding fractions as equal partitions of a whole. They formalize their knowledge as they work with area models and the number line.

Grade Level Standards

3.G.2, 3.NF.1, 3.NF.2, 3.NF.3

Student Report Card

- Identifies and analyzes shapes by their attributes.
- Understands and represents fractions on a number line.
- Recognizes and understands equivalent fractions.

Key Vocabulary



- Copies: refers to the number of unit fractions in 1 whole
- Equivalent fractions: fractions that name the same size or the same point on the number line.
- Fractional unit: half, third, fourth, ect
- Unit fraction: fraction with a numerator as 1.
- Unit interval: the interval from 0 to 1, measured by length.

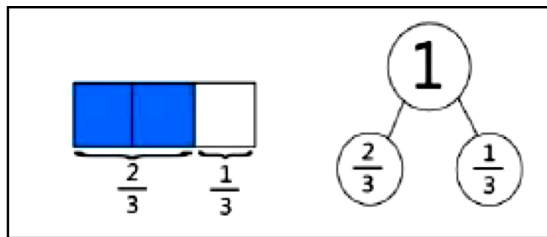
How you can help at home:



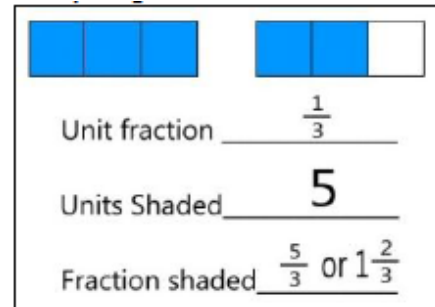
- Go on a fraction hunt! Look for household items that are divided into equal parts (fractions of a whole and fractions of a set). Record the fractions.
- Roll number cubes to make fractions. Draw pictures of the fractions you make. Place the fractions you've made in order on a number line.
- Identify fractions at meal times. For example, you ate $\frac{1}{2}$ of an apple, $\frac{3}{4}$ stalk of celery, 1 whole tuna sandwich, and $\frac{2}{3}$ of a glass of milk.
- Practice making equivalent fractions.
- Plot fractions on a number line.
- Continue to review multiplication and division math facts with your student
- Help students practice partitioning house hold items (pieces of paper, portions of food, a pack of crayons, etc.) into equal parts

Models and Representations

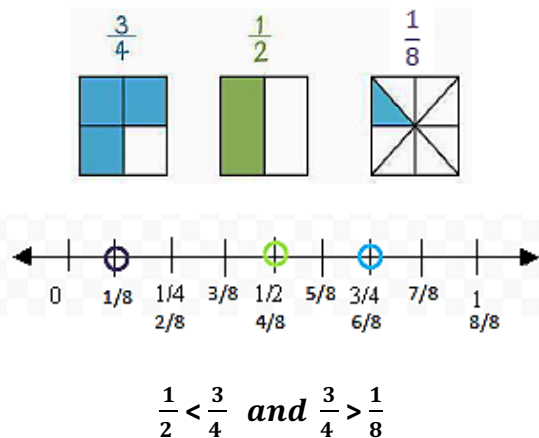
Students will understand that both the shaded and non-shaded part of a fraction model makes the whole. They will represent fractions with number bonds. They will see that two-thirds of the fraction is shaded and one-third is not shaded which makes up the whole of 1.



Students will learn that some fractions are larger than 1 whole.



Students will compare fractions through the use of models and the number line.



Students will also learn about equivalent fractions through use of models and the number line.

